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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/670,761	09/27/2000		John L. Farmer	07844-463001	6144	
21876	7590	07/08/2004		EXAM	INER	
FISH & RICHARDSON P.C.			BASEHOAR, ADAM L			
3300 DAIN RAUSCHER PLAZA MINNEAPOLIS, MN 55402				ART UNIT	PAPER NUMBER	
	•	•		2178		

DATE MAILED: 07/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicati	on No.	Applicant(s)				
Office Action Summary		09/670,70	31	FARMER ET AL.	1/1			
		Examine		Art Unit	U			
		Adam L B		2178				
Th Period for Re	e MAILING DATE of this communic ply	cation appears on the	e cover sheet with the c	correspondence addres	ss			
THE MAIL - Extensions after SIX (6 - If the period - If NO period - Failure to re Any reply re	ENED STATUTORY PERIOD FO ING DATE OF THIS COMMUNIO of time may be available under the provisions on MONTHS from the mailing date of this commu for reply specified above is less than thirty (30) I for reply is specified above, the maximum state the ply within the set or extended period for reply we ceived by the Office later than three months aften int term adjustment. See 37 CFR 1.704(b).	CATION. If 37 CFR 1.136(a). In no evinication. If days, a reply within the state of the control of the contro	ent, however, may a reply be tir utory minimum of thirty (30) day ill expire SIX (6) MONTHS from lication to become ABANDONE	nely filed s will be considered timely. the mailing date of this commu	unication.			
Status								
1)⊠ Res	ponsive to communication(s) filed	d on <u>27 September 2</u>	<u>2000</u> .					
2a) This	action is FINAL . 2	b)⊠ This action is r	on-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of			,,					
<u> </u>		onlication						
•	Claim(s) <u>1-58</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
•	Claim(s) <u>1-58</u> is/are rejected.							
	m(s) is/are objected to.							
8)☐ Clai	m(s) are subject to restrict	ion and/or election r	equirement.					
Application F	apers							
9) <u></u> The	specification is objected to by the	Examiner.						
10)⊠ The	10)⊠ The drawing(s) filed on <u>27 September 2000</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Appl	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)∐ The	oath or declaration is objected to	by the Examiner. No	ote the attached Office	e Action or form PTO-	152.			
Priority unde	r 35 U.S.C. § 119							
12)	Certified copies of the priority of Certified copies of the priority of	documents have bee documents have bee of the priority docume	en received. En received in Applicati ents have been receive	ion No	ge			
* See t	ne attached detailed Office action	for a list of the certi	fied copies not receive	ed.				
Attachment(s)			_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date								
3) Information	ransperson's Patent Drawing Review (PT Disclosure Statement(s) (PTO-1449 or F)/Mail Date <u>4</u> .		_	Patent Application (PTO-152	2)			

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DETAILED ACTION

1. This action is responsive to communications: The Application filed on 09/27/00 and the IDS filed on 02/20/01.

2. Claims 1-58 are pending in the case. Claims 1, 10, 19, 29, 33, 37, 41-45, 50, and 55-58 are independent claims.

Claim Objections

3. Claim 23 objected to because of the following informalities: Claim 23 appears to be an exact duplicate and thus contains the same limitations of claim 22. Since claim 23 depends from claim 22, the examiner assumes that claim 23 was an accidental duplicate and as such should be removed from consideration as it does not further define/limit the scope of the invention.

Appropriate correction is required.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1-44 and 55-58 rejected under 35 U.S.C. 102(e) as being anticipated by Truelson (US: 6,223,191 04/24/01).

-In regard to independent claims 1, 10, and 19, Truelson teaches a method, system, and program code for identifying possible lines within a paragraph in a top-down pass through the paragraph (column 2, lines 50-67);

selecting a combination of possible lines in a bottom-up pass through the possible lines (columns 11 & 12, 64-67 & 1-6); and specifying a layout for the paragraph according to the selected combination (column 2, lines 61-64).

-In regard to dependent claims 2, 11, and 20, Truelson teaches calculating a penalty for each of the possible lines independently of the other lines (column 2, lines 51-53); and

selecting the combination of lines based on the penalty calculations (column 2, lines 61-

64).

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-In regard to dependent claims 3, 12, and 21, Truelson teach calculating in a top-down pass, a penalty for each of the possible lines (column 2, lines 50-65)(Fig. 6A);

accruing the penalties over each of the downward sequences of the possible line (column 2, lines 61-63); and

before selecting the combination of the possible lines, pruning the possible lines and associated sequences of possible lines for which the accrued penalty does not satisfy a benchmark penalty (column 2, lines 53-60).

-In regard to dependent claims 4, 13, 22, 23, 30, 34, and 38, Truelson teach calculating the penalty for each of the possible lines as it is identified (column 2, lines 51-53); and

terminating identification of additional possible lines in the sequence associated with one of the possible lines if the accrued penalty for the line does not satisfy a benchmark penalty (column 2, lines 53-60).

-In regard to dependent claims 5, 14, and 24, Truelson teach accruing the penalties calculated in the top-down pass for each of the upward sequences of the possible lines (columns 11 & 12, lines 64-67 and 1-6); and

selecting in the bottom-up pass those lines for which the accrued penalty is lowest (column 2, lines 61-63).

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-In regard to dependent claims 6, 15, 25, 31, 35, and 39, Truelson teach wherein the penalty calculations for each of the possible lines includes penalties based on the width (letter spacing) of the respective line relative to the width of an applicable baseline (column 7, lines 1-24)(Fig. 6A: '0+0+0+20=20').

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-In regard to dependent claims 7, 16, 26, 32, 36, and 40, Truelson teach wherein the width (length of a line) of the applicable baseline varies (different letter spacing) between different baselines (column 7, lines 1-24) (Fig. 7B). Truelson also teach wherein the width of the applicable baseline varies between different baselines based on applicable format parameters such as margins (column 2, lines 40-49).

-In regard to dependent claims 8, 17, and 27, Truelson teach wherein the size of text within the different baseline varies based on format parameters such as different font size (column 2, lines 40-49).

-In regard to dependent claims 9, 18, and 28, Truelson teach wherein the paragraph is contained within an arbitrary shaped paragraph cell, wherein the shape of the selected paragraphs in Figures 5B and 7B are different (Figs: 5B & 7B).

-In regard to independent claims 29, 33, and 37, Truelson teach identifying possible lines within a paragraph in a top-down pass through the paragraph, each of the possible lines yielding a downward sequence of additional possible lines (column 2, lines 50-67)(Fig. 6B);

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calculating, in a top down pass a penalty for each of the possible lines independently of each other (column 2, lines 51-53);

accruing the penalties over each of the downward sequences of the possible lines in the top down pass (column 2, lines 61-63);

pruning the possible lines and associated sequences of possible lines for which the accrued penalty does not satisfy a benchmark penalty (column 2, lines 53-60);

selecting a combination of the possible lines remaining after the pruning in a bottom up pass through the possible lines based on the penalties accrued over upward sequences of possible lines (columns 11 & 12, 64-67 & 1-6); and

specifying a layout for the paragraph according to the selected combination (column 2, lines 61-64).

-In regard to independent claims 41 and 42, Truelson teach defining a paragraph cell for layout of a paragraph (Fig. 5B), the cell including a sequence of baselines for placement of lines of text information, where at least some of the baselines have different widths (columns 2 & 7, lines 40-49 & 1-24) (Fig. 7B);

identifying possible lines within a paragraph in a top-down pass through the paragraph, each of the possible lines, characterized by a line start (Fig. 3: 303, 304, and 305), yielding a downward sequence of additional possible lines (column 2, lines 50-67)(Fig. 6B);

calculating, in a top down pass a penalty for each of the possible lines independently of each other (column 2, lines 51-53);

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accruing the penalties over each of the downward sequences of the possible lines in the top down pass (column 2, lines 61-63);

pruning the possible lines and associated sequences of possible lines for which the accrued penalty does not satisfy a benchmark penalty (column 2, lines 53-60);

selecting a combination of the possible lines remaining after the pruning in a bottom up pass through the possible lines based on the penalties accrued over upward sequences of possible lines (columns 11 & 12, 64-67 & 1-6); and

specifying a layout for the paragraph according to the selected combination (column 2, lines 61-64).

-In regard to independent claims 43 and 44, Truelson teach identifying a subset of possible lines within a paragraph in a top down pass (column 2, lines 50-67)(Fig. 6B);

selecting a combination of possible lines from the identified subset in a bottom up pass through the subset of possible lines (columns 11 & 12, 64-67 & 1-6); and

specifying a layout for the paragraph according to the selected combination (column 2, lines 61-64).

-In regard to independent claims 55 and 56, Truelson teach identifying possible lines within a paragraph in a top-down pass through the paragraph (column 2, lines 50-67)(Fig. 6B); calculating, in a top down pass a penalty for each of the possible lines (column 2, lines 51-53);

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accruing the penalties over each of the downward sequences of the possible lines in the top down pass (column 2, lines 61-63);

pruning the possible lines and associated sequences of possible lines for which the accrued penalty does not satisfy a benchmark penalty (column 2, lines 53-60); and

wherein the accrued penalty for one of the sequences does not satisfy the benchmark penalty, terminating further compilation of the respective sequence (columns 2 & 6, lines 53-60 & 32-37).

-In regard to independent claims 57 and 58, Truelson teach identifying a complete paragraph layout solution by expanding partial paragraph layout solutions (column 2, lines 50-67)(Fig. 6B);

comparing a penalty for each of the partial paragraph layout solutions to a benchmark penalty corresponding to a known complete paragraph layout solution (column 2, lines 53-60); and

wherein the accrued penalty for one of the partial paragraph solutions does not satisfy the benchmark penalty, terminating further compilation of the respective sequence (columns 2 & 6, lines 53-60 & 32-37).

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6. Claims 45-48 and 50-53 are rejected under 35 U.S.C. 102(a) as being anticipated by Microsoft's, "Microsoft Word 2000," 1999, pp. 1-7.

-In regard to independent claims 45 and 50, Microsoft Word teaches defining a paragraph layout for a paragraph of text (page 2);

detecting a change to the paragraph of text, wherein the change includes at least one of a change to the text (deletion of the word "writing": see pages 3 and 4) and a change to a paragraph cell in which the text was positioned (change to margin of paragraph cell: see pages 2 and 5); and

globally redefining the paragraph layout in real time in response to the detected change (notice real time changes with respect to pages 3 and 4 as well as 2 and 5).

-In regard to dependent claims 46 and 51, Microsoft Word teaches wherein the change includes the deletion of text (deletion of the word "writing": see pages 3 and 4).

-In regard to dependent claims 47 and 52, Microsoft Word teaches wherein the change includes the change in the size and shape of the paragraph cell (change to margin of paragraph cell: see pages 2 and 5).

-In regard to dependent claims 48 and 53, Microsoft Word teaches wherein the change includes the addition of imagery within the paragraph cell (Addition of image to paragraph cell: see pages 2 and 7).

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Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 49 and 54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Microsoft's, "Microsoft Word 2000," 1999, pp. 1-7 in view of Truelson (US: 6,223,191 04/24/01)
- -In regard to dependent claims 49 and 54, Microsoft Word do not teach identifying possible lines within a paragraph in a top-down through the paragraph; selecting a combination of the possible lines in a bottom-up pass through the possible lines; and specifying the redefined paragraph layout according to the selected combination. Truelson teaches identifying possible lines within a paragraph in a top-down through the paragraph (column 2, lines 50-67); selecting a combination of the possible lines in a bottom-up pass through the possible lines (columns 11 & 12, 64-67 & 1-6); and specifying the redefined paragraph layout according to the selected combination (column 2, lines 61-64). It would have been obvious to one of ordinary skill in the art at the time of the invention, for Microsoft Word to have used the method of Truelson, because Truelson taught that said method resulted a formatted text paragraph that was both easier to read and more aesthetically appealing because it will have fewer hyphenated words, letter spaced words, or related undesirable formatting characteristics (column 3, lines 1-6).

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US: 6,510,441	01-2003	Kenninga, Eric
US: 6,647,533	11-2003	Liu et al.
US: 6,288,726	09-2001	Ballard, Dean
US: 6,321,243	11-2001	Ballard, Dean

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adam L Basehoar whose telephone number is (703) 305-7212. The examiner can normally be reached on M-F: 7:30am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather Herndon can be reached on (703) 308-5186. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).